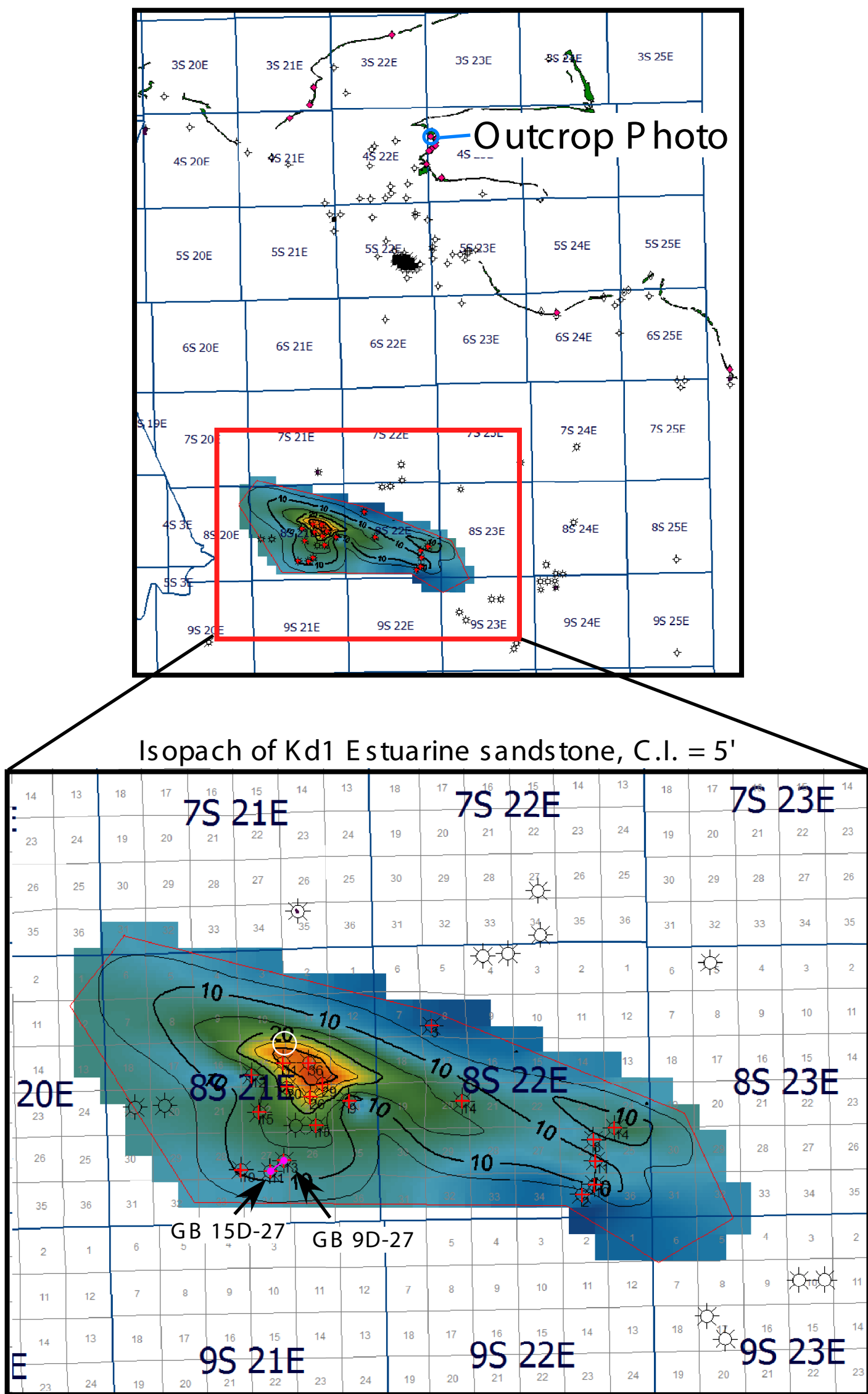


Core to Outcrop Comparison

INDEX MAP

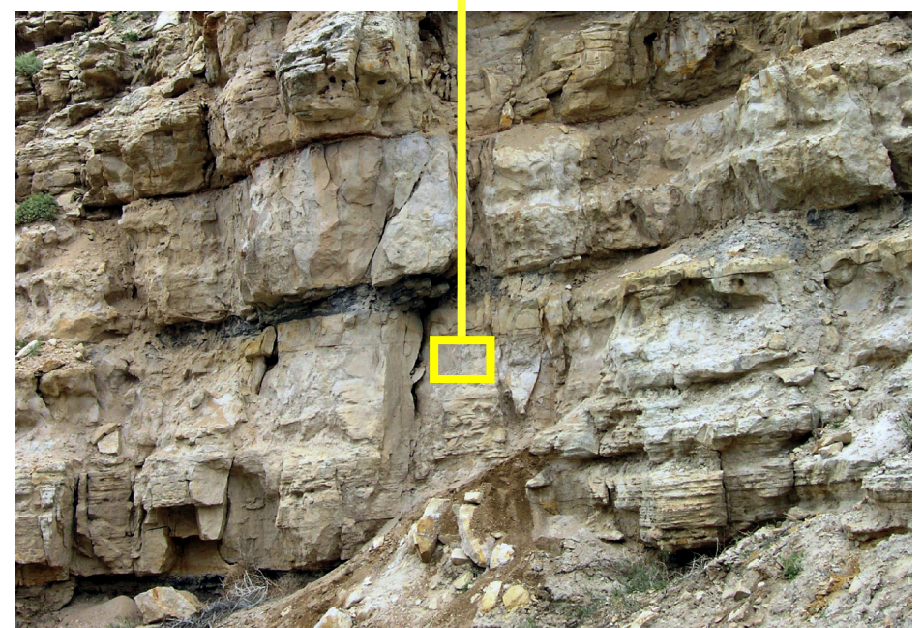


Isopach of the Kd1 Estuarine sandstone. Red crosses indicate control wells. Non-control wells in the colored, mapped area were not drilled deep enough to penetrate the reservoir sandstone or did not have logs run over the interval. The Kd1 Estuarine sandstone was not present in wells outside of the mapped area.

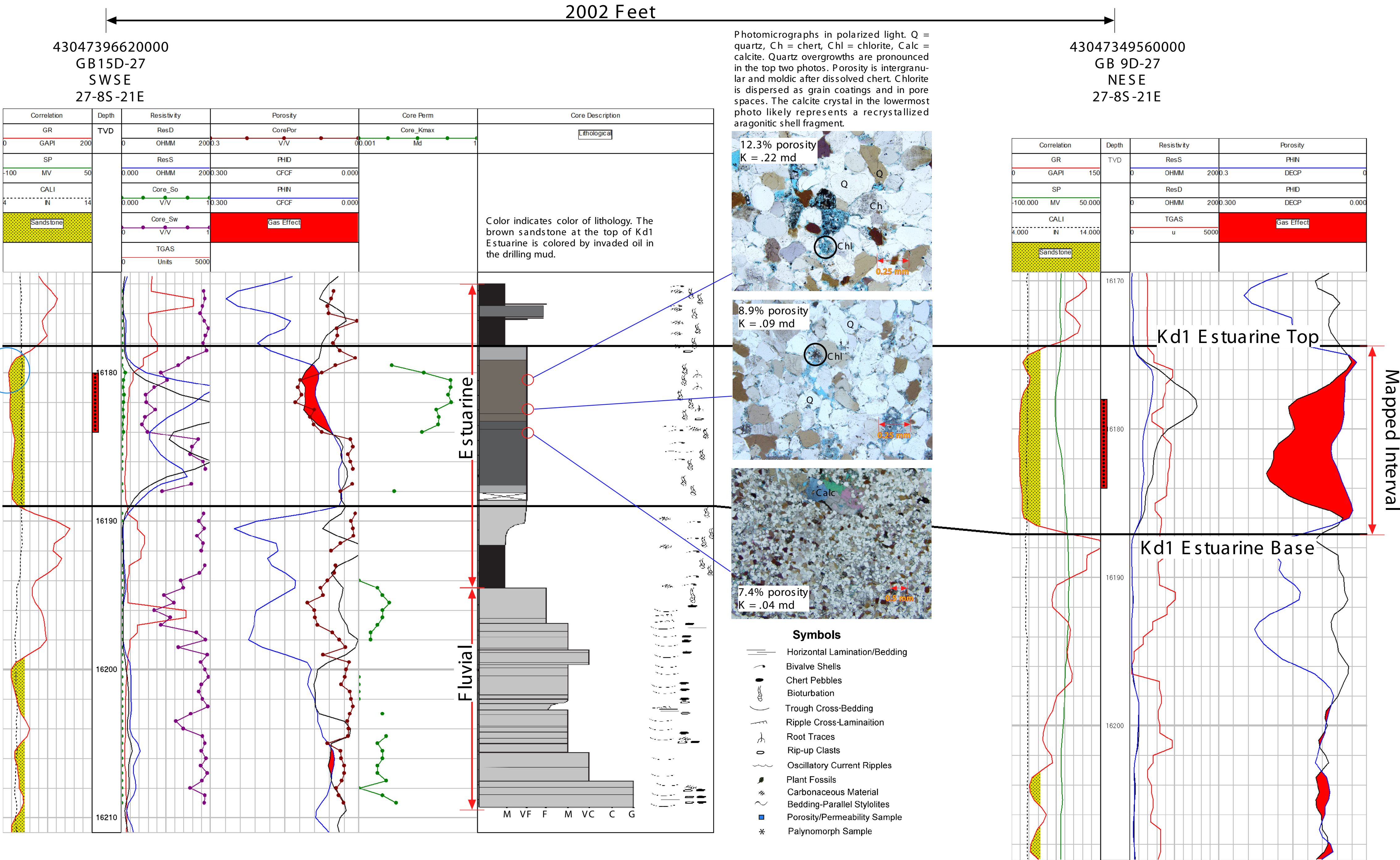
Note: Kd1 Estuarine only refers to the producing reservoir sandstone in the GB 9D-27, we do not mean to infer that it is the only estuarine rock present in the Dakota Fm.

Log data, core, core data, and thin sections provided by QEP Resources.

Outcrop Photos



Outcrop analogue for Kd1 Estuarine sandstone. The upper photo shows vertical burrows similar to those encountered in the core. The outcrop sandstone is very fine- to fine-grained, well sorted, and highly bioturbated. In the photograph below, the sandstone comprises one of several tabular, extensively bioturbated beds that are intercalated with dark gray, carbonaceous siltstone and shale. The lowermost bed in the photograph is less extensively bioturbated and displays horizontal beds and ripple cross-lamination.



TD = 16275
Comp Date = 8/3/2008
Cum Gas (from multiple zones) = 587 MMCF
Cum Gas (Kd Allocated) = 128 MMCF

TD = 16252
Comp Date = 4/16/2007
Cum Gas (Kd) = 2.75 BCF